

Virginia Stationary Source Operating Permit (Title V)

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Multitrade of Pittsylvania County L.P., FPL Energy LLC, General Partner
Mailing Address:	P.O. Box 2001, Hurt, VA 24563-0001
Facility Name:	Multitrade of Pittsylvania County, L.P.
Facility Location:	Jay Bird Hill, Hurt VA
DEQ Registration No.:	30871
AIRS Identification No.:	51-143-0123
Permit Number	VA-30871

Effective Date	<u>January 1, 2003</u>
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Amendment Date	<u>July 28, 2004</u>
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Expiration Date	<u>December 31, 2007</u>
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<hr/>	<u>July 28, 2004</u>
Robert G. Burnley	
Director, Department of Environmental Quality	

Table of Contents, 2 pages
Permit Conditions, 24 pages

Table of Contents

I.	Facility Information.....	1
II.	Emissions Units	2
	A. Insignificant Emission Unit Inventory List	2
	B. Significant Emissions Units.....	2
III.	Wood-fired Boilers (Unit Nos. 101, 102, and 103).....	3
	A. Limitations.....	3
	B. Testing.....	5
	C. Monitoring	6
	D. Reporting	6
	E. Recordkeeping.....	7
IV.	Auxiliary Generator (Unit No. 110).....	7
	A. Limitations.....	7
	B. Testing.....	9
	C. Reporting	9
	D. Monitoring.....	9
	E. Recordkeeping.....	9
V.	Miscellaneous Facility Equipment.....	10
	A. Limitations.....	10
	B. Reporting	11
	C. Monitoring.....	11
	D. Recordkeeping.....	12
VI.	Facility-wide and General Requirements	12
	A. New source standard for visible emissions	12
	B. Operating Procedures.....	13
	C. Physical Security	13
VII.	Permit Shield & Inapplicable Requirements.....	13
VIII.	General Conditions	14
	A. Enforceability	14
	B. Permit Expiration	14
	C. Recordkeeping and Reporting	15
	D. Annual Compliance Certification.....	16
	E. Permit Deviation Reporting	17
	F. Failure/Malfunction Reporting.....	17
	G. Severability	18
	H. Duty to Comply	18
	I. Need to Halt or Reduce Activity not a Defense	19
	J. Permit Modification.....	19
	K. Property Rights	19
	L. Duty to Submit Information	19

M. Duty to Pay Permit Fees	19
N. Fugitive Dust Emission Standards	20
O. Startup, Shutdown, and Malfunction	20
P. Alternative Operating Scenarios	21
Q. Inspection and Entry Requirements	21
R. Reopening For Cause.....	21
S. Permit Availability.....	22
T. Transfer of Permits.....	22
U. Malfunction as an Affirmative Defense	22
V. Permit Revocation or Termination for Cause	23
W. Duty to Supplement or Correct Application	23
X. Stratospheric Ozone Protection.....	24
Y. Accidental Release Prevention.....	24
Z. Changes to Permits for Emissions Trading.....	24
AA. Emissions Trading.....	24

I. Facility Information

Permittee

Multitrade of Pittsylvania County, L.P.
700 Universe Blvd.
Juno Beach, FL 33408-2683

Mr. John Helton
Plant Manager
434/324-8223

Facility

Multitrade of Pittsylvania County, L.P.
P.O. Box 2001
Jay Bird Hill
Hurt, VA 24563-0001

Contact Person

Mr. John M. Helton
Plant Manager
434/324-8223

VA Registration Number: 30871

AIRS Identification Number: 51-143-0123

Facility Description: 4911 - Multitrade of Pittsylvania County, L.P. is authorized to operate a power production facility located in Pittsylvania County on the south side of the Staunton River at UTM coordinates 4107.750 km North and 653.250 km East, northeast of Hurt, Virginia. The plant uses three identically sized wood-fired spreader stoker boilers, each having a rated capacity of 373.3 MMBtu/hr to generate steam. The steam from the three boilers is directed to two turbines, each with a rated maximum generating capacity of 45 megawatts (MW) of electrical power. The facility also contains one auxiliary diesel generator and associated fuel storage tanks, wood storage and handling equipment and ash handling and storage.

II. Emissions Units

A. Insignificant Emission Unit Inventory List

Emission Unit No.	Emission Unit Description	Citation (9 VAC_)	Pollutant Emitted (5-80-720 B)	Rated Capacity* (5-80-720 C)
111	Diesel Fire Pump	5-80-1720C1		<645HP & <500 hr/yr
121, 122	(2) #2 fuel oil tanks	5-80-720 B.2	VOC	10,000 gallons each
123	#2 oil tank	5-80-720-B.2	VOC	200 gallons
201	Wood stockpile	5-80-720 B.1	PM	85,000 tons
202	Wood reclaim pit vent fan	5-80-720 B.1	PM	5 h.p.
203	Wood conveyance	5-80-720 B.1	PM	360 tons/hr
301	Ash silo fabric filter	5-80-720 B.1	PM	3.5 tons/hr
302	Ash loading	5-80-720 B.1	PM	3.5 tons/hr
303	Bottom ash	5-80-720 B.1	PM	0.5 tons/hr
501	Solvent-based parts washer (non-halogenated)	5-80-720 B.2	VOC	5 gallons

* Rated Capacity is for informational purposes and does not represent a limitation.

B. Significant Emissions Units

1. Process Units

Emission Unit No.	Stack No.	Emission Unit Description*	Size/Rated Capacity**
101, 102, 103	S1	Spreader stoker wood-fired boiler to generate steam to produce electricity	373.7 MMBtu/hr each
110	S2	Caterpillar diesel generator	14.68 MMBtu/hr

* Date of Construction for all equipment is 1994

** Size/Rated Capacity is for informational purposes and does not represent a limitation.

2. Pollution Control Equipment

Emission Unit No.	Control Equipment Description	Pollutant
101, 102, 103	Multicyclone	PM
101, 102, 103	Electrostatic Precipitator	PM
101, 102, 103	SNCR/urea injection	NO _x
121, 122, 123	Submerged or bottom fill loading	VOC
201	Wet suppression	PM/fugitive dust
301	Fabric Filter	PM

III. Wood-fired Boilers (Unit Nos. 101, 102, and 103)

A. Limitations

Table III.A.1 Emission Limits for Each Primary Boiler

Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/10 ⁶ Btu	lb/hr	
PM	0.02	7.47	Condition 13, permit amended 12/9/99
PM ₁₀	0.02	7.32	Condition 13, permit amended 12/9/99
SO ₂ *	0.016	6.0	Condition 13, permit amended 12/9/99
NO _x *	0.10	37.4	Condition 13, permit amended 12/9/99
CO	0.35	130.8	Condition 13, permit amended 12/9/99
VOC	0.07	26.2	Condition 13, permit amended 12/9/99
	lb/hr	lb/day	
Ammonia	10.0	240.0	Condition 13, permit amended 12/9/99
Benzene	5.2	125.0	Condition 13, permit amended 12/9/99
Fluorides (as HF)	0.64	15.4	Condition 13, permit amended 12/9/99
Formaldehyde	0.37	8.9	Condition 13, permit amended 12/9/99
Naphthalene	0.036	0.87	Condition 13, permit amended 12/9/99
Phenol	1.9	45.6	Condition 13, permit amended 12/9/99

* - 30-day rolling average

**Table III.A.2 Emission Limits for All Three Boilers (Unit Nos. 101, 102, 103)
Combined**

Regulated Pollutant	Combined Limitation/Standard		Applicable Requirement
	tons/yr*		
PM	96.4		Condition 15, permit amended 12/9/99
PM ₁₀	94.5		Condition 15, permit amended 12/9/99
SO ₂	77.1		Condition 15, permit amended 12/9/99
NO _x	482.1		Condition 15, permit amended 12/9/99
CO	1,687.3		Condition 15, permit amended 12/9/99
VOC	337.5		Condition 15, permit amended 12/9/99
SO ₂ (3-hr. rolling avg)	0.016 lb/10 ⁶ Btu	54.0 lb/hr	Condition 14, permit amended 12/9/99
Sulfuric Acid Mist	0.22 lb/hr	5.38 lb/day	Condition 14, permit amended 12/9/99

* Tons/yr calculated monthly as the sum of each consecutive 12-month period.

- The boilers (Units 101, 102, 103) shall consume no more than a total of 1,048,512 tons of wood per year (on a 40 percent moisture content basis), calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-170-160 and Condition 11, permit amended 12/9/99)

2. Particulate emissions from each primary wood boiler (Units 101, 102, 103) shall be controlled by multicyclone/electrostatic precipitator combination rated at 99.7 percent control efficiency. The multicyclones and ESPs shall be provided with adequate access for inspection. The permittee shall operate the facility in accordance with the startup/shutdown plan submitted to DEQ on March 10, 1997, as amended June 22, 1998.
(9 VAC 5-80-10 H, 9 VAC 5-50-260 and Condition 3, permit amended 12/9/99)
3. Nitrogen oxide emissions from the wood boilers (Units 101, 102, 103) shall be controlled by the use of a selective noncatalytic reduction/urea injection system designed to achieve a minimum removal of 50 percent on a thirty day rolling average basis. The control system shall operate at all times that fuel is fed to the main boilers, except for specific time periods during startup and shutdown. The permittee shall operate the facility in accordance with the startup/shutdown plan submitted to DEQ on March 10, 1997, as amended June 22, 1998.
(9 VAC 5-80-10 H, 9 VAC 5-50-260 and Condition 7, permit amended 12/9/99)
4. The approved fuel for the three spreader stoker boilers (Units 101, 102, 103) is wood. "Wood" is defined for the purpose of this condition as wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including but not limited to sawdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues, plywood scraps and particle board. This definition does not include wood contaminated with, but not limited to finishing materials, laminated coatings, and lacquers. A change in the fuels may require a permit to modify and operate. Upon the request of the Department, the permittee shall obtain an analysis of the wood to be approved by the Department to verify compliance with this condition. In addition, the permittee shall maintain records of all wood shipments, including origin of shipment and a certification that the wood fuel meets the definition of wood as stated in this condition. These records shall be available on site for the inspection by Department personnel and shall be kept current for the most recent five-year period.
(9 VAC 5-80-10 and Condition 20, permit amended 12/9/99)
5. Visible emissions from the boilers' (Units 101, 102, 103) stack shall not exceed ten (10) percent opacity as would be determined by EPA Method 9 (ref. 40 CFR 60, App. A) except during one six-minute period per hour which shall not exceed twenty (20) percent opacity. This condition applies at all times except during start-up, shutdown, or malfunction. Monitoring for visible emissions shall be performed in accordance with Conditions III.C.1 and III.C.2, below.
(9 VAC 5-50-260, 9 VAC 5-80-10 H and Condition 18, permit amended 12/9/99)
6. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment, air pollution control equipment, or monitoring equipment, the permittee shall:

- a. develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
- b. maintain an inventory of spare parts that are needed to minimize duration of such equipment breakdowns.

If such failure, malfunction, or unscheduled maintenance is unreasonably affecting the public health, safety or welfare, the Department (South Central Regional Office) may order the permittee to cease such pollution immediately.

(9 VAC 5-170-160, 9 VAC 5-20-180 and Condition 27, permit amended 12/9/99)

7. The requirements of 40 CFR 60 Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, including future revisions and the applicable requirements of 40 CFR Part 60, Subpart A apply to the three spreader stoker wood-fired boilers (Unit Nos. 101, 102 and 103).
(9 VAC 5-50-410, 40 CFR 60.40b, 40 CFR 60, Subpart A)

B. Testing

1. Once each permit term, at a frequency not to exceed once every five years, the permittee shall conduct a stack test for PM, PM-10, and CO from each boiler (Units 101, 102, 103) to demonstrate compliance with the applicable pounds per million Btu and hourly emission limits contained in this permit. The initial test shall be performed within 180 days after the effective date of this permit. The test shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30. The details of the tests shall be arranged with the South Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the South Central Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110 and 9 VAC 5-50-30)
2. The permitted facility shall be designed and constructed to allow emissions testing using appropriate methods upon reasonable notice at any time.
(9 VAC 5-50-30 F and Condition 29, permit amended 12/9/99)
3. All continuous emission monitoring systems (CEMS) and continuous opacity monitor (COMS) shall be operated in accordance with the applicable procedures under Performance Specifications 1, 2, and 3 of 40 CFR 60, Appendix B.
(9 VAC 5-80-110 E and 40 CFR 60 Subpart Db)
4. The permittee shall obtain the following analyses:
 - a. an analysis of the wood heat content at least once per week.
 - b. an analysis of the wood sulfur content at least once per quarter.

- c. an analysis of the wood to verify compliance with Condition III.A.4 of this permit, at the request of the Department but no more than once per week.

Details of the sampling procedure shall be arranged with the South Central Regional Office. Records of fuel quality analysis shall be available on site for inspection by Department personnel and shall be kept current for the most recent five-year period. (9 VAC 5-170-160 and Condition 21, permit amended 12/9/99)

C. Monitoring

1. Continuous emission monitors shall be installed to measure and record opacity (one opacity monitor for the three boilers), and the concentrations of NO_x and either CO₂ or O₂ emitted from each of the wood boilers (Units 101, 102, 103). The opacity monitor shall be maintained, located and calibrated in accordance with approved procedures in 40 CFR 60.13. The NO_x and either CO₂ or O₂ monitors shall be maintained, located and calibrated as specified in 40 CFR 60 Appendix B and Appendix F. Records of service and maintenance will be kept on file for two years. The monitors shall be operated when the boilers are operating. The opacity monitor shall be operated as required by 40 CFR 60, Subpart Db. A 30-day notification prior to the demonstration of continuous monitoring system performance (and any subsequent notifications), are to be submitted to the Department (South Central Regional Office).
(9 VAC 5-50-40, 40 CFR 60.13, 40 CFR 60.48b, and Condition 24, permit amended 12/9/99)
2. The continuous monitoring data generated by the continuous emission monitors on the boilers (Units 101, 102, 103) shall be used to determine compliance with the emissions and opacity standards. The opacity monitor reporting requirements of 40 CFR 60, Subpart Db shall apply. The data capture, quality assurance provisions, and reporting requirements of 40 CFR 60, Subpart Db shall apply to the NO_x and either CO₂ or O₂ monitors.
(9 VAC 5-50-40, 40 CFR 60.13, 40 CFR 60.48b, and Condition 25, permit amended 12/9/99)
3. For all boiler continuous emission monitors required by this permit, the continuous monitoring and quality assurance data may, at the discretion of the Board, be used as evidence of violation of the emission standards. These monitors are subject to such data capture requirements and/or quality assurance requirements as may be deemed appropriate by the Board (refer to 40 CFR 60.13 and 40 CFR 60, Appendices B and F).
(9 VAC 5-170-160, 40 CFR 60.13, and Condition 26, permit amended 12/9/99)

D. Reporting

1. Excess emission and monitoring system performance reports shall be submitted to the South Central Regional Office semi-annually in accordance with 40 CFR 60.49b.
(9 VAC 5-50-30, 9 VAC 5-80-10 J., 40 CFR 60.49b)

2. The permittee shall submit reports in accordance with 40 CFR 60 Subpart Db and 40 CFR 60 Subpart A.
(9 VAC 5-50-50, 40 CFR 60.49b, 40 CFR 60.13)

E. Recordkeeping

The permittee shall maintain records of all required emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the South Central Regional Office. These records shall include but are not limited to:

1. Tons of wood annual throughput for the facility, calculated monthly as the sum of each consecutive 12-month period,
2. All reports and records required by 40 CFR 60 Subpart Db
3. Records of wood shipments as required by Condition III.A.4
4. Records of all scheduled and non-scheduled maintenance as required by Condition III.A.6.a.
5. The permittee shall maintain records of the pollutant-specific emission factors, AF@ factor, and the equations used to determine compliance with the emission limits in Condition III.A.

These records shall be available on site for inspection by DEQ personnel and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, 40 CFR 60.7 and Condition 30, permit amended 12/9/99)

IV. Auxiliary Generator (Unit No. 110)

A. Limitations

Regulated Pollutant	Limitation/Standard			Applicable Requirement
	lb/10 ⁶ Btu	lb/hr	tons/yr*	
PM	0.36	5.3	0.61	Condition 16, permit amended 12/9/99
PM ₁₀	0.36	5.3	0.61	Condition 16, permit amended 12/9/99
SO ₂ **	0.30	4.4	0.51	Condition 16, permit amended 12/9/99
NO _x	4.51	66.2	7.69	Condition 16, permit amended 12/9/99
CO	0.97	14.2	1.66	Condition 16, permit amended 12/9/99
VOC	0.36	5.3	0.61	Condition 16, permit amended 12/9/99
Lead	1.5 x 10 ⁻⁵	2.2 x 10 ⁻⁴	2.6 x 10 ⁻⁵	Condition 16, permit amended 12/9/99

* Tons/yr calculated monthly as the sum of each consecutive 12 month period.

** SO₂ emissions are based on 0.3 percent sulfur (by weight) fuel.

1. Emissions from the auxiliary generator (Unit 110) shall be controlled by a restriction on fuel oil usage and by good combustion operating practices.
(9 VAC 5-80-10 H, 9 VAC 5-50-260 and Condition 8, permit amended 12/9/99)
2. Visible emissions from the auxiliary generator (Unit 110) stack shall not exceed ten (10) percent opacity as would be determined by EPA Method 9 (ref. 40 CFR 60, App. A) Monitoring for visible emissions shall be performed in accordance with Condition IV.D, below.
(9 VAC 5-50-260 and Condition 19, permit amended 12/9/99)
3. The approved fuel for the auxiliary generator (Unit 110) is No. 2 fuel oil. A change in this fuel may require a permit to modify and operate.
(9 VAC 5-80-10 and Condition 22, permit amended 12/9/99)
4. The maximum sulfur content of the No. 2 fuel oil to be burned in the auxiliary generator (Unit 110) shall not exceed 0.3 percent by weight. The permittee shall maintain records of all fuel oil shipments purchased. These records shall be made available on site for inspection by Department personnel. They shall be kept on file for the most current five-year period.
(9 VAC 5-170-160 and Condition 23, permit amended 12/9/99)
5. The auxiliary generator (Unit 110) shall consume no more than 24,000 gallons of No. 2 fuel oil per year. The permittee shall maintain an operating log including the amount of No. 2 fuel oil burned in the auxiliary generator each day. The log shall be available on site for inspection by Department personnel, and shall be kept on file for the most current five-year period.
(9 VAC 5-170-160 and Condition 12, permit amended 12/9/99)
6. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment, air pollution control equipment, or monitoring equipment, the permittee shall:
 - a. develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
 - b. maintain an inventory of spare parts that are needed to minimize duration of such equipment breakdowns.

If such failure, malfunction, or unscheduled maintenance is unreasonably affecting the public health, safety or welfare, the Department (South Central Regional Office) may order the permittee to cease such pollution immediately.

(9 VAC 5-170-160, 9 VAC 5-20-180 and Condition 27, permit amended 12/9/99)

B. Testing

The generator (Unit 110) shall be constructed to allow emissions testing using appropriate methods upon reasonable notice at any time.

(9 VAC 5-60-30, 9 VAC 5-170-160 and Condition 29, permit amended 12/9/99)

C. Reporting

Upon request of the Department, the permittee shall provide reports in a manner and form and using procedures acceptable to the Department.

(9 VAC 5-50-50 H)

D. Monitoring

At least one time while operating, but no more than once per week, an observation of the presence of visible emissions from the auxiliary generator stack shall be made. If visible emissions are observed the permittee shall:

1. take timely corrective action such that the auxiliary generator (Unit 110) resumes operation with no visible emissions, or,
2. perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9; or using a Continuous Opacity Monitoring System (COMS) operated in accordance with 40 CFR 60, Appendix B; to assure visible emissions from the auxiliary generator (Unit 110) is less than 10 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed the allowable limits listed in Condition IV.A.2 above, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the auxiliary generator resumes operation with visible emissions of less than the allowable limits listed in Condition IV.A.2 above.

A record of the date, time, observer, cause and corrective measures taken shall be made. If no visible emissions were observed, a record of the date, time and observer shall be made. These records shall be maintained on site by the permittee for the most recent 5-year period.

(9 VAC 5-80-110 E)

E. Recordkeeping

The permittee shall maintain records of all required emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. The sulfur content per shipment of the No. 2 fuel oil burned in the auxiliary generator (Unit 110), as required by Condition IV.A.4,
2. The annual consumption of No. 2 fuel oil burned in the auxiliary generator, calculated monthly as the sum of each consecutive 12-month period, as required by Condition IV.A.5,

3. Records of all scheduled and non-scheduled maintenance as required by Condition IV.A.6.a,
4. Records of the visible emission and opacity observations for the generator as required by Condition IV.D.
5. The permittee shall maintain records of the pollutant-specific emission factors, AF@ factor, and the equations used to determine compliance with the emission limits in Condition IV.A.

These records shall be maintained on site by the permittee for the most current five-year period.

(9 VAC 5-50-50, 9 VAC 5-80-110, and Condition 30, permit amended 12/9/99)

V. Miscellaneous Facility Equipment

A. Limitations

1. Visible emissions from all emission points (except those on the main boilers and auxiliary generator) shall not exceed the following limits:

Transfer Points	15 percent opacity
Fabric Filters	5 percent opacity
All Other Points	10 percent opacity

(9 VAC 5-50-260, 9 VAC 5-80-10 H and Condition 19 permit amended 12/9/99)

2. Fugitive dust emissions from wood unloading, feeding, and conveying, shall be controlled by use of feedstock containing no sander dust, covered conveyors, enclosed transfer points, and use of a spray mist system as necessary to comply with the opacity limitations stated in Condition V.A.1, above of this permit. Wood chipping operations shall be fully enclosed.
(9 VAC 5-50-90 and Condition 4, permit amended 12/9/99)

3. Particulate emissions from the ash handling operations listed below shall meet the emission limitations listed below. These values are included for modeling and emission inventory purposes. Compliance will be determined as stated in the opacity requirements contained in Condition V.A.1, above of this permit.

Ash Silo Dust Collector	2.90×10^{-3} lbs/hr
Ash Transfer to Unloading Trucks	3.36×10^{-4} lbs/hr

(9 VAC 5-50-260, 9 VAC 5-80-10 H and Condition 17, permit amended 12/9/99)

4. Particulate emissions from the ash storage silo shall be controlled by a fabric filter with a rated efficiency of at least 99.9 percent. Fugitive dust from ash transfer to trucks shall be controlled by mixing the ash discharge with water.
(9 VAC 5-80-10 H, 9 VAC 5-50-260, 9 VAC 5-50-90 and Condition 5, permit amended 12/9/99)

5. Wood stockpiles shall be moistened or treated (wet suppression and surfactant) and the stockpile surfaces shall be kept moist or treated as necessary to comply with the opacity requirements contained Condition V.A.1, above, of this permit and to minimize emissions during storage and handling.
(9 VAC 5-50-90 and Condition 6, permit amended 12/9/99)
6. Fugitive emissions from all external access roads shall be controlled by paving. Fugitive emissions from all paved facility roads shall be controlled through sweeping or roadway washing. Emissions from unpaved roads shall be controlled by wetting as necessary. If operating mechanical sweepers, water shall be used to suppress dust during operation.
(9 VAC 5-50-90 and Condition 9, permit amended 12/9/99)
7. Volatile organic compound emissions from the No. 2 fuel oil storage tanks shall be controlled by the use of submerged or bottom fill loading and conservation vents.
(9 VAC 5-80-10 H, 9 VAC 5-50-260 and Condition 10, permit amended 12/9/99)
8. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment, air pollution control equipment, or monitoring equipment, the permittee shall:
 - a. develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
 - b. maintain an inventory of spare parts that are needed to minimize duration of such equipment breakdowns.

If such failure, malfunction, or unscheduled maintenance is unreasonably affecting the public health, safety or welfare, the Department (South Central Regional Office) may order the permittee to cease such pollution immediately.

(9 VAC 5-170-160, 9 VAC 5-20-180 and Condition 27, permit amended 12/9/99)

B. Reporting

Upon request of the Department, the permittee shall provide reports in a manner and form and using procedures acceptable to the Department.

(9 VAC 5-50-50 H)

C. Monitoring

Emission points with a visible emissions limit contained in this permit associated with the wood or ash handling equipment shall be observed visually at least once each week when this equipment is in operation. If the system is idle, the source denotes in the log that the system was not operational for any period during the week. If visible emissions are observed the permittee shall:

1. take timely corrective action such that the equipment resumes operation with no visible emissions, or,
2. perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the fabric filter is less than 5 percent opacity, any transfer point is less than 15 percent opacity or any other point is less than 10 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed the allowable limits listed in Condition V.A.1 above, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions of less than the allowable limits listed in Condition V.A.1 above.

A record of the date, time, observer, cause and corrective measures taken shall be made. If no visible emissions were observed, a record of the date, time and observer shall be made. These records shall be maintained on site by the permittee for the most recent 5-year period.
(9 VAC 5-80-110 K)

D. Recordkeeping

The permittee shall retain records of all emission data and operating parameters required, to include process throughputs, by the terms of this permit. The content of and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. Records of all scheduled and non-scheduled maintenance as required by Condition V.A.8.a,
2. Records of the visible emission and opacity observations for the generator as required by Condition V.C.

These records shall be maintained on site by the permittee for the most current five-year period.
(9 VAC 5-50-50 and Condition 30, permit amended 12/9/99)

VI. Facility-wide and General Requirements

A. New source standard for visible emissions

Unless otherwise specified in this permit, on or after the date on which the performance test required to be conducted by 9 VAC 5-50-30 is completed, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity as would be determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Operating Procedures

1. The permittee shall develop, maintain and have available to all operators good written operating procedures for all air pollution control equipment. A maintenance schedule for all such equipment shall be established and made available to the South Central Regional Office for review. Records of service and maintenance shall be maintained on site by the permittee for the most current five-year period.
(9 VAC 5-170-160, 9 VAC 5-80-110 and Condition 31, permit amended 12/9/99)
2. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment, air pollution control equipment or monitoring equipment, the permittee shall:
 - a. develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
 - b. maintain a spare parts inventory for equipment associated with all air pollution control and monitoring equipment to minimize down time during periods of malfunction.

If such failure, malfunction, or unscheduled maintenance is unreasonably affecting the public health, safety or welfare, the South Central Regional Office may order the permittee to cease such pollution immediately.

(9 VAC 170-160, 9 VAC 5-80-110 and Condition 27, permit amended 12/9/99)

C. Physical Security

A physical barrier shall be installed at the property line that shall restrict public access to the property.

(9 VAC 5-170-160 and Condition 28, permit amended 12/9/99)

VII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

VIII. General Conditions

A. Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent, with 9 VAC 5-80-80, has been submitted, to the Department, by the owner, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F; 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;

- (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the South Central Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-50-40.] The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition C.3 above of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the South Central Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the South Central Regional Office.

1. The emission units that have continuous monitors subject to 9 VAC 5-50-50 C are not subject to the two week written notification.
2. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-50-50 C are the three spreader stoker wood-fired boilers (Units 101, 102, 103)

3. Each owner required to install a continuous monitoring system subject to 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable emission standard) to the board for every calendar six-month period. All semi-annual reports shall be postmarked by the 30th day following the end of each calendar six-month period and shall include the following information:
 - a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
 - d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.
4. All emission units not subject to 9 VAC 5-50-50 C must make written reports within two weeks of the malfunction occurrence.

(9 VAC 5-20-180 C and 9 VAC 5-50-50, 40 CFR 60.13(h))

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

(9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.

(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

- b. The permitted facility was at the time being properly operated.
 - c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.
 - d. The permittee notified the board of the malfunction within two working days following the time when the emissions limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2. b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirements under 9 VAC 5-20-180 C.
- 3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof..
 - 4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)